

## PCT

To:

Awapatent i Linköping AB  
Platensgatan 9C  
582 20 Linköping  
Sverige

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference <b>21017791</b>	Date of mailing (day/month/year) <b>02-05-2005</b>
International application No. <b>PCT/SE2005/000044</b>	FOR FURTHER ACTION See paragraphs 1 and 4 below
Applicant <b>HTC SWEDEN AB et al</b>	International filing date (day/month/year) <b>17-01-2005</b>

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
- Filing of amendments and statement under Article 19:  
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):
- When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report.
- Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35
- For more detailed instructions, see notes on the accompanying sheet.
2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest: the applicant will be notified as soon as a decision is made.

## 4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Telex 17978 PATOREG-S	Authorized officer <b>Birgitta Sahl</b>  Telephone No. 08-782 25 00
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# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To:

Awapatent i Linköping AB  
Platensgatan 9C  
582 20 LINKÖPING  
SVERIGE

# PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year)

02-05-2005

Applicant's or agent's file reference

21017791

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/SE2005/000044

International filing date (day/month/year)

17.01.2005

Priority date (day/month/year)

13.02.2004

International Patent Classification (IPC) or both national classification and IPC

B24B 7/18

#3.12.2005

Applicant

HTC SWEDEN AB et al

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further opinions, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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Patent- och registreringsverket  
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Authorized officer

Anders Brinkman / MRO

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

**PCT/SE2005/000044**

**Box No. I**      **Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language, \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/SE2005/000044

**Box No. V** Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

**1. Statement**

Novelty (N)	Claims	<u>1-21</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>9-13, 16-20</u>	YES
	Claims	<u>1-8, 14, 15, 21</u>	NO
Industrial applicability (IA)	Claims	<u>1-21</u>	YES
	Claims		NO

**2. Citations and explanations:**

**Relevant documents cited in the International Search Report**

D1: US 6295682 B1

D2: US 20030114091 A1

**Explanation**

The invention relates to a machine for processing the surface of a floor. The invention aims at providing an improved machine as regards its capacity, efficiency, manoeuvrability and transportability. The machine should also be able to be produced to a reasonable cost.

D1 discloses a rideable cleaning machine. Column 1, lines 5-45 discusses prior art rideable assemblies which clean, scrub and wax floors and the disadvantages that these assemblies have. Since the invention according to the application relates to processing floors D1 would be of interest for the person skilled in the art.

The machine in D1 comprises a power brush assembly 30 including a motor housing 34 that extends upwardly from a buffer housing 31, which supports a cleaning tool. The cleaning tool may be a brush or a buffer 32 (column 3, lines 11-14). The power brush assembly 30, which is connected to a carriage 2 of the machine by a bracket 36, may be used for polishing purposes (column 3, lines 46-47) and can be raised and inclined in relation to the carriage 2 by the aid of a tiltable handle 35 which is connected to the motor 34.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: BOX V

According to one embodiment the machine may be provided with a second power brush which can be used in tandem in a dual brush arrangement as shown in fig. 2 (cfr column 4, lines 49-50). It appears clear that when the machine is provided with two power brush assemblies 30 they are individually tiltable in relation to the carriage 2.

Claim 1

The main purpose of the machine in D1 appears to be to clean carpets. However, the background art and its disadvantages which is discussed in D1 refers to the cleaning, scrubbing or waxing of floors. In D1 it is mentioned that the machine may be used for "polishing" (column 3, line 47). It seems probable that it is a floor surface that is polished and not a carpet. The known machine also appears suitable for polishing floor surfaces.

The invented machine according to claim 1 differs from D1 in that it comprises a disk for processing the floor. The person skilled in the art would realise that the machine in D1 easily can be modified in such a way that the buffer 32 is formed by a polishing disk. In the field of polishing surfaces it is also well known to use polishing disks.

The machine according to claim 1 is thus novel but is considered to lack inventive step for the reasons set out above.

Claims 4 and 5

D2 discloses a floor burnisher machine with a head assembly 14 comprising a floor polishing element 19. The head assembly 14 is mounted to the frame of the machine by linkage arms 28. It is evident from fig. 2 that the head assembly can be turned in relation to the linkage arms.

In light of D2 it appears obvious to the person skilled in the art to modify the machine in D1 in way that falls under the scope of claims 4 and 5.

Claims 4 and 5 therefore appear to lack inventive step.

.../...

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/SE2005/000044

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of: BOX V

Claims 2, 3, 6-8, 14, 15 and 21

The machine according to claims 2, 3, 6-8, 14, 15 and 21 appears obvious to the person skilled in the art when considering D1.

The machine according to claims 2, 3, 6-8, 14, 15 and 21 therefore lacks inventive step.

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>21017791</b>	<div style="display: flex; justify-content: space-between;"> <div> <b>FOR FURTHER ACTION</b> </div> <div> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small> </div> </div>	
International application No. <b>PCT/SE 2005/000044</b>	International filing date ( <i>day/month/year</i> ) <b>17 January 2005</b>	(Earliest) Priority Date ( <i>day/month/year</i> ) <b>13 February 2004</b>
Applicant <b>HTC SWEDEN AB et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II)

3. ☐ Unity of invention is lacking (see Box No. III)

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regard to the drawings,**

a. the figure of the drawings to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000044

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B24B 7/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A47L, B24B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6295682 B1 (J.H. KLUCZNIK), 2 October 2001 (02.10.2001), column 1, line 48 - line 52; column 2, line 56 - column 3, line 59; column 4, line 49 - line 50	1-3,6-8,14, 15,21
Y	--	4,5
Y	US 20030114091 A1 (J. IMMORDINO JR. ET AL), 19 June 2003 (19.06.2003), paragraph (0002) - (0004), (0008) - (0009), (0020) - (0030), figures 1,2,5	4,5
A	WO 03076131 A1 (HTC SWEDEN AB), 18 Sept 2003 (18.09.2003), figure 2, abstract	16-18
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

21 March 2005

Date of mailing of the international search report

02-05-2005

Name and mailing address of the ISA/

Swedish Patent Office

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Authorized officer

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000044

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FI 85114 B (PIIRAINEN, S.E.U.), 29 November 1991 (29.11.1991), figure 1, claim 1, abstract --	4,5
A	DATABASE WPI Week 200107 Derwent Publications Ltd., London, GB; Class P28, AN 2001-056000 & JP 2000317803 A (OSAGUMI KK) 21 November 2000 (2000-11-21) figures 1,2, abstract --	1
A	US 2200921 A (G.P. GRANELL), 14 May 1940 (14.05.1940), page 1, column 1, line 1 - line 9; page 2, column 1, line 37; column 2, line 4, figures 1,2 --	1
A	US 5643047 A (L.J. BECKETT ET AL), 1 July 1997 (01.07.1997), column 1, line 8 - line 11; column 1, line 53 - line 56; column 4, line 39 - line 43, figures 1,8,9 --	16
A	US 2972159 A (A.S. SWANSON ET AL), 21 February 1961 (21.02.1961), figures 2,5,6,10,11 --	16
A	US 5063713 A (G.A. BUCHHEIT, JR.), 12 November 1991 (12.11.1991), column 3, line 49 - line 54; column 7, line 55 - line 59, figure 3 --	1
A	US 20020011813 A1 (H. KOSELKA ET AL), 31 January 2002 (31.01.2002), paragraph (0033), abstract -- -----	17,20

INTERNATIONAL SEARCH REPORT  
Information on patent family members

01/03/2005

International application No.

PCT/SE 2005/000044

US	6295682	B1	02/10/2001	NONE		
US	20030114091	A1	19/06/2003	NONE		
WO	03076131	A1	18/09/2003	AU	2003214735 A	00/00/0000
				DE	10296574 T	29/04/2004
				EP	1492646 A	05/01/2005
				JP	2004524780 T	12/08/2004
				SE	0200743 A	13/09/2003
				US	20040133784 A	08/07/2004
FI	85114	B	29/11/1991	FI	891014 A	03/09/1990
US	2200921	A	14/05/1940	NONE		
US	5643047	A	01/07/1997	AT	136485 T	15/04/1996
				AU	662488 B	07/09/1995
				AU	8311491 A	02/03/1992
				CA	2088512 A,C	02/02/1992
				DE	69118698 D,T	28/11/1996
				EP	0541657 A,B	19/05/1993
				GB	2263426 A,B	28/07/1993
				GB	9016897 D	00/00/0000
				GB	9303545 D	00/00/0000
				WO	9202334 A	20/02/1992
US	2972159	A	21/02/1961	DE	1293126 B	24/04/1969
				GB	794007 A	23/04/1958
				NL	6400025 A	26/07/1965
US	5063713	A	12/11/1991	NONE		
US	20020011813	A1	31/01/2002	US	6741054 B	25/05/2004
				AU	8127601 A	12/11/2001
				WO	0182766 A,B	08/11/2001